Sixth International Conference on Mathematical Modelling

CALL FOR PAPERS August 10-13, 1987

Washington University St. Louis, Missouri, USA

CALL FOR PAPERS

The Sixth International Conference on Mathematical Modelling: An Interdisciplinary integrative Forum for Researchers and Educators in Engineering, Economics, Biological, Medical, Environmental, Social and Other Sciences will be held at Washington University in St. Louis. Several distinguished contributors to mathematical modelling are expected to present general lectures and invited papers. Participation in the conference is open to all interested persons. Authors are invited to submit papers in three categories: 1) Full length (20 minute presentation); 2) Short reports (10 minute presenta-

tion); 3) Papers for poster sessions.

tion; 3) Papers for poster sessions. Full length papers require abstracts of about 500 words in length and others up to 200 words. Authors are urged to specify the category to which they are submitting their papers. The Organizing Committee would appreciate suggestions by the authors stating which of the following topics their papers address. Papers on all aspects of mathe-matical modelling including analytical computer and statistical aspects emphasizing the mechanics and methodology are solicited. Since simulation is complementary to the development of mathemati-cal modelling. simulation aspects may also be included. cal modelling, simulation aspects may also be included.

TOPICS

- Engineering Systems: Materials, Machines, Chemical, Electrical and Mechanical Systems, Power Systems and Networks, Structures, Controls, Robotics, Pattern Recognition, Product Performance and Reliability, Design Optimization, Heat Transfer, Mechanics of Solids and Fluids.
- Resources: Agricultural and Energy Resources their production, con-servation and distribution, Water and Marine resources, Interaction with Economy (Renewable and Non-Renewable Resources).
- Defense Related Problems: Military Decision Models, Defense Econo-mics, Simulation Models, Strategic and Technical Systems, Applications.
- Biomedical Systems: Physiology, Pharmacokinetics, Bioavailability and Drug Performance, Biomechanics, Biomaterials.
- Economic Problems: Management and Decision Sciences, Econometrics, Micro and Macro Economics, Monetary policies, Forecasting.
- Environmental Sciences: Air and Water Pollution, Solid Waste Management, Nuclear Waste Disposal Problems.
- Methodology: Mathematical Methods, Numerical Modelling, Parallel Processing, Parameter Estimation, System Identification, Modelling Processing, Parameter Estimation, System Identification, Modelling Theory, Optimization, Operations Research.
- Model Validations: Experimental Validations, Correlation Between Different Types of Models.
- Curricula Development in Mathematical Modelling.

SUBMISSION OF PAPERS

The closing date for receipt of abstracts is January 15, 1987. Notice of acceptance will be mailed to the authors about March 31, 1987. A volume containing all abstracts of the accepted papers will be made available to the participants at the Conference. (See instructions for swarde below) awards below.)

The abstracts should be typed single space on an 8½ x11"(21.5 cm. x 28 cm.) plain paper with 1" (2.5 cm.) margin on all four sides. The title must be in capital letters followed by the author's name(s), affiliation and full address placed symetrically. The length of the abstract should not exceed one single space typewritten page (about 500 words). Send two copies of abstracts and inquiries for further details to:

Professor Ervin Y. Rodin Professor Evence and Mathematics Washington University, Campus Box 1040 One Brookings Drive St. Louis, Missouri 63130 USA Telephone inquires may be directed to (314) 889-5806.

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